



DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, DC 20380-0001

MCO 3960.5
MCCDC
30 Aug 1988

MARINE CORPS ORDER 3960.5

From: Commandant of the Marine Corps
To: Distribution List

Subj: Nuclear, Biological, and Chemical (NBC) Defense Equipment
Test and Evaluation Program

Ref: (a) TI-10010-15/1
(b) TI-10010-15/2
(c) MCO 4855.10A

Encl: (1) Listing of Authorized Materiel Tested by the T&EU's
(2) Directives Related to the NBC Test and Evaluation
Program
(3) Special Allowance for MCLB T&EU's
(4) Format for FMF Annual Submission
(5) Report of Test Results
(6) Request for T&EU Support

1. Purpose. To redefine guidance and criteria previously established on the Nuclear, Biological, and Chemical Defense Equipment Testing and Evaluation Program.

2. Scope. The program provides for technical support (physical testing of selected NBC defense equipment) and technical assistance (instruction/consultation in the use of NBC defense equipment serviceability standards) to all Marine Corps activities and involves the NBC defense equipment held at all levels of supply. The current NBC Test and Evaluation Units (T&EU's) onsite visits are anticipated to be reduced as the new Protective Mask Fit Validation Systems (PMFVS) are procured and distributed to using units. The PMFVS will provide units with the capability to validate the protection factor of the protective mask assigned to each Marine. This validation process will ensure proper mask fit and provide a criterion to repair or reject protective masks. The T&EU's will continue to provide technical support to the Remote Storage Activities (RSA's) and Maritime Prepositioning Ships on "as required basis."

3. Mission. NBC T&EU's will continue to operate from the Marine Corps Logistics Bases (MCLB's) to examine NBC defense equipment utilizing the most currently available NBC test equipment in a mobile/static configuration. NBC equipment items, to include NBC protective masks, hoods, and Toxicological Agent Protective (TAP) equipment (enclosure (1)), have been selected to be examined at random as approved by the program administrator, MCLB, Albany,

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GA. Each T&EU will provide the technical support to test the aforementioned equipment. Each T&EU also provides the technical assistance, as requested from respective Marine Corps activities, utilizing the serviceability standards of reference (a), and the following order of precedence of supported units:

- a. Fleet Marine Forces (FMF) (active duty).
- b. Stores Equipment.
- c. Selected Marine Corps Reserve (SMCR).
- d. Other Marine Corps activities (Non-FMF, bases, stations, depots, etc.).

4. Information

a. The Commanding General (CG), MCLB, Albany, GA, will administer the subject program as guided by the directives contained in enclosure (2).

b. The T&EU'S will be assigned within each MCLB. The number of personnel required to staff the T&EU's will be determined by overall mission requirements, but will consist of no less than one officer (MOS 5702) and four enlisted (MOS 5711).

c. The T&EU's are equipped with specialized NBC test equipment, a 40-foot commercial trailer and tractor, to be furnished by the respective MCLB's. Enclosure (3) establishes this special allowance and depicts the general organization of each trailer. MCLB Albany T&EU will support east coast activities and the MCLB Barstow T&EU will support west coast activities. Overseas units may be supported by a mail-in program and will request technical assistance per reference (b).

d. All requirements for improved technological enhancements in support of this program are to be submitted via the chain of command to the CG (Code WF11B), Marine Corps Combat Development Command (MCCDC), copy to CG (SSC-NBC), Marine Corps Research Development and Acquisition Command (MCRDAC).

5. Action

a. CG, Fleet Marine Force, Atlantic (FMFLant), CG, Fleet Marine Force, Pacific (FMFPac), and Remote Storage Activities (RSA's)

(1) Provide a point of contact for coordinating visits and logistical assistance to the program to the CG (Code 830), MCLB, Albany, GA.

(2) Develop and prioritize visitation/mail-in schedules and submit proposed test and evaluation requirements for each fiscal year to the appropriate MCLB no later than 31 January, annually, utilizing the format in enclosure (4).

(3) Provide necessary support facilities, personnel, and equipment to the T&EU as follows:

(a) Electrical source; 3 phase, 208 VAC, 60 cycle, 100 amp. generators may be utilized. When generators are utilized, generator operators will be required during all operations and vehicle support will be required when the mobile facility is relocated during a visit.

(b) Water source; Potable water delivering not less than 20 psig nor more than 40 psig pressure located within 100 feet of the mobile facility.

(c) Sufficient unit personnel to assist in the preparation and handling of items to be inspected.

(d) Administrative support as required.

(4) Certify that 15 days prior to T&EU's visit, the equipment requested to be inspected will have been subjected to owning unit inspection/maintenance as required by current directives.

b. CG, MCLB, Albany

(1) Submit request for funding for T&EU's support to the Commandant of the Marine Corps (CMC) (L).

(2) Compile and evaluate the combined test results of the T&EU's.

(3) Perform trend analysis on passed and failed equipment items tested by the T&EU's.

(4) Coordinate all visits, to include the approval of the visit, and all equipment to be inspected during the visit.

(5) Correlate equipment deficiency trends with the Quality Deficiency Reports (QDR) submitted on like items.

(6) Provide copies of the standard monthly Marine Corps Quality Deficiency Information System report to the CG (PSI-G/SSC-NBC), MCRDAC per reference (c).

(7) Arbitrate all differences that may arise between the FMF and the T&EU'S to include schedules, type of equipment to be inspected and test selection criteria.

(8) Conduct annual reviews of references (a) and (b), and revise as appropriate.

(9) Submit request for changes to the T&EU'S Tables of Organization (T/O) as needed.

(10) Promulgate a Standing Operating Procedure (SOP) for the T&EU's and review annually.

(11) Coordinate with the units surveyed, all actions required for replacement/repair of all defective NBC defense equipment discovered during the test and evaluation visit.

c. OIC, NBC T&EU's MCLB, Albany, and MCLB, Barstow

(1) Submit annual funding requirements to the CG (Code 830) MCLB, Albany by 1 March of each fiscal year for all program costs.

(2) Develop operating schedules to provide the support and assistance requested as explained in paragraphs 2 and 3 of this Order.

(3) Provide unit commanders with a close-out brief of the test and evaluation visit to include a written copy of the report of the test results (enclosure (5)). Significant deficiencies or trends noted will be highlighted.

(4) Submit trip reports on the results of all test and evaluation performed to CG (Code 803/830), MCLB, Albany.

d. SMCR and other Marine Corps Activities

(1) Requests for test and evaluation visits will be submitted to CG (Code 830) MCLB, Albany, utilizing the format in enclosure (6).

(2) Test and evaluation of NBC defense equipment will be accomplished by one of the following methods:

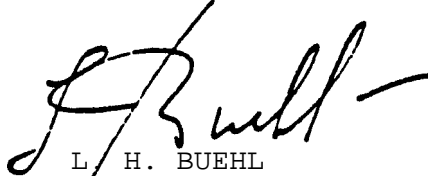
(a) Onsite test and evaluation visit at the unit location.

(b) Off-site test and evaluation to include the requesting unit's equipment during a scheduled FMF visit.

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(c) Mail-in test and evaluation to the nearest MCLB
T&EU.

6. Reserve Applicability. This Order is applicable to the Marine
Corps Reserve.



L. H. BUEHL
Chief of Staff

DISTRIBUTION: 6901001,002/7230001, 004, 033/7501001 (10)
2030001, 002/6025/660001, 002, 003,004/6967001,
003, 004 (5)

Copy to: 7000034 (5)
7000144/8145001 (1)

LISTING OF AUTHORIZED MATERIEL TESTED BY THE T&EU'S

1. Materiel listed is routinely tested at all locations by the T&EU's:

<u>TAM NO</u>	<u>NOMENCLATURE</u>
C2010	Apron, Toxicological Agent Protective
C2030	Boots, Protective Impermeable, M2A1
C2040	Cover, Footwear, Toxicological Agent Protective
C2050	Coveralls, Toxicological Agent Protective, M3
C2130	Footwear Covers, Chemical Protective
C2150	Glove Set, Chemical Protective
C2160	Glove, Protective, Impermeable, M4
C2170	Hood, Mask, CBR, M6A2
C2180	Hood, Gas Mask, Toxic Agent Protective, M-3
C2190	Hood, Mask, CBR, M-5/M-7
C2235	Mask, CBR, M24, Aircraft, Protective
C2250	Mask, Field, Protective, Special Purpose, M9A1
C2260	Mask, Protective, Field, M25A1 (TANK)
C2270	Mask, Protective, Field, M17A2

2. Request for testing of other NBC defense designated items by the T&EU's will be forwarded to CG (Code 830), MCLB, Albany for approval.

ENCLOSURE (1)

DIRECTIVES RELATED TO THE NBC TEST AND EVALUATION PROGRAM

1. The current edition of the documents listed below are applicable or related to the NBC Test and Evaluation Program and should be considered concurrently with this Order's procedures and requirements:

<u>Publication</u>	<u>Subject</u>
DoD 4140.27M	Identification, Control, and Utilization of Shelf Life Items
DLAM 4155.5	Quality Assurance Depot Storage Standards
MIL-STD 105D	Sampling Procedures and Table for Inspection by Attributes
MIL-STD 109	Quality Assurance Terms and Definitions
MCO P4030.23	Instruction Guide for Basic Military Preservation
MCO P4400.75	MOWASP MANUAL
MCO P4400.77	Technical Data Management Manual
MCO 4430.3	Reporting of Item and Packaging Discrepancies
MCO P4450.7	Marine Corps Warehouse Manual
MCO P4790.1	MIMMS Introduction Manual
MCO 4855.2	Marine Corps Quality Program
MCO 4855.5	Reporting of Product Quality Deficiencies Across Component Lines
MCO P4855.7	Quality Assurance Manual for Clothing, Textiles and Life Support Items
MCO 4855.10	Quality Deficiency Report
MCO P4855.11	The DoD Quality System Review Program
TI 10010-15/1	Serviceability Standards Nuclear, Biological, and Chemical (NBC) Defense Property

ENCLOSURE (2)

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Publication

Subject

TI 10010-15/2

Technical Assistance NBC (Nuclear,
Biological, and Chemical) Defense Property

MCO 5000.16

Specifications and Standards Application

SPECIAL ALLOWANCE FOR MCLB T&EU'S

FUNCTIONAL DESCRIPTION:

The T&EU's are designed to provide a mobile facility to perform the nontoxic testing of designated NBC defense equipment.

TECHNICAL DESCRIPTION:

Prime Mover:

Commercial, 10-wheeled, 350Hp, diesel-fueled tractor with air suspension.

Trailer:

Modified 40 x 8 x 13.5 foot commercial, flat floored, electronics moving van. Interior modification includes installation of ceiling light fixtures, air conditioner/heating unit with ducting, aids wall insulation, air compressor (3hp 208 VAC) with various regulated outlets, ventilation system and furnishing necessary to support the installed test equipment and operators.

<u>ITEM NO</u>	<u>STOCK NUMBER</u>	<u>ITEM</u>	<u>IDENTIFICATION</u>	<u>UNIT OF ISSUE</u>	<u>QTY IN UNIT</u>
1	6665 00 911 3552	M-14	Mask Leakage Tester; for components see IM 136-300-18-E	EA	2
2	6665 01 024 0529	Q-204	Dry Bubble Tester; for components see IM 136-300-294	EA	2
3	6665 01 082 1111	Q79A1	Inflation Tester; for components see IM 136-300-300B	EA	2
4	6680 01 021 9803	Q179	Mask Resistance Tester; for Components see IM 136-300-262D	EA	2
5	6665 00 736 2128	M4A1	Outlet Valve Tester; for components see IM 136 300-204D	EA	2

ENCLOSURE (3)

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<u>ITEM NO</u>	<u>STOCK NUMBER</u>	<u>ITEM</u>	<u>IDENTIFICATION</u>	<u>UNIT OF ISSUE</u>	<u>QTY IN UNIT</u>
6		Hydro Static Tester Type 502; available from Alfred Suter Co.		EA	1
7	3540 00 299 9811	Sealer, Heat 12" Jaw		EA	2
8		Computer, Micro		SE	1
9		Table, Utility/Workbench Type 510 1000 Series; available front advance engineering		EA	2
10	7125 00 330 0130	Cabinet Storage		EA	1
11	2125 00 378 4261	Cabinet Storage		EA	1
12	7110 00 262 6650	Shelf Book		EA	3
13	7110 00 128 0067	Desk, 4 Drawer		EA	1
14	7110 00 273 8785	Chair		EA	2
15	7110 00 634 8596	Stool, Revolving		EA	2
16	7110 00 113 8176	Tool Set		SE	1
17	7100 00 601 9835	Table		EA	1
18	6680 00 436 4212	M39, Tester Gas Particulate		EA	1
19	4729 00 203 3912	Hose, 3/4 in x 50 ft		EA	3
20		Fire Extinguisher		EA	2
21		Compressor, Portable 2hp 110 volts 20 gal tank		EA	1
22		Stairs		EA	2

ENCLOSURE (3)

MARINE CORPS MOBILE TEST/EVALUATION FACILITY

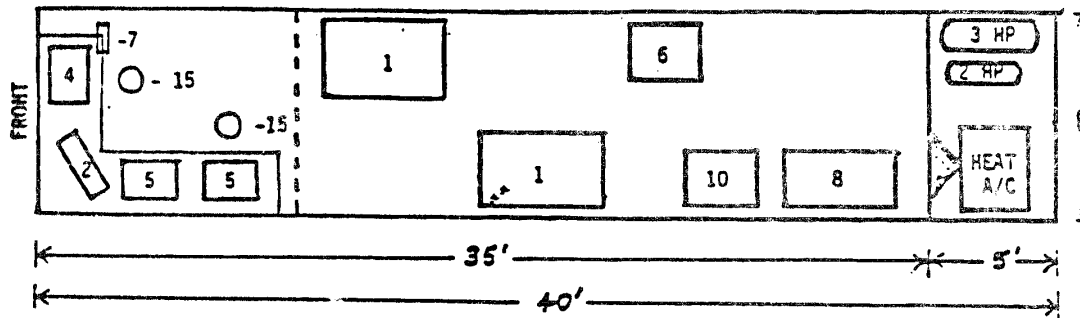


FIGURE 1

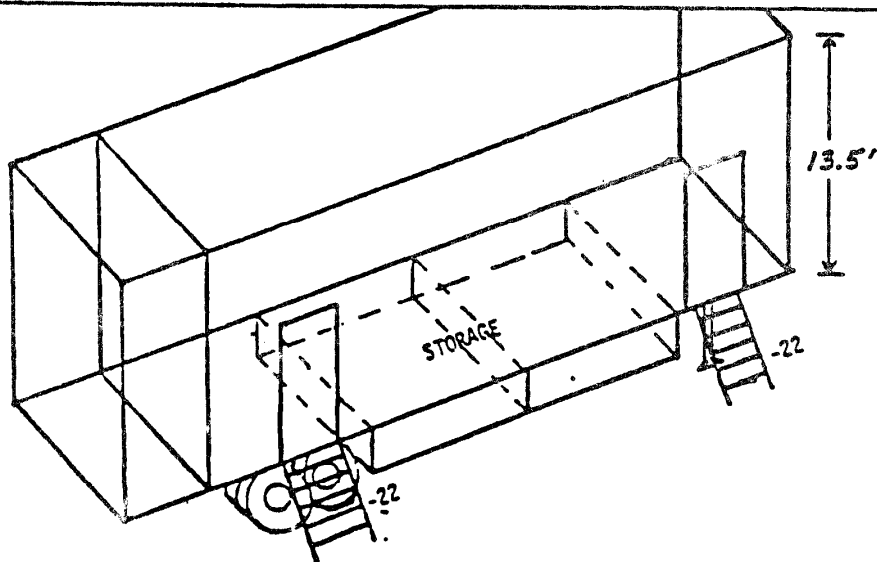


FIGURE 2

FORMAT FOR FMF ANNUAL SUBMISSION

FM: CG FMFLANT//G-3// OR CG FMFPAC//G-3//

TO: CG MCLB ALBANY GA//830//

INFO: CMC WASHINGTON DC//L//
CG MCRDAC WASHINGTON DC//SSC-NBC/PSI-G//

SUBJ: PROPOSED T&EU REQUIREMENTS FOR FY____

A. MCO 3960.5

1. THE FOLLOWING REQUIREMENTS ARE SUBMITTED FOR CONSIDERATION PER
THE REFERENCE:

DATES	LOCATION	HOST(MSC)	PRIORITY
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2. POINTS OF CONTACT ARE:

A. VISIT COORDINATOR, (NAME, OFFICE, PHONE)

B. LOGISTICS COORDINATOR, (NAME, OFFICER, PHONE)

NOTE

PRIORITIES: 1. Mission Essential
2. Annual Requirement (EOD)
3. Operational Enhancement
4. Technical Assistance Only

ENCLOSURE (4)

REPORT OF TEST RESULTS

Report Number: --88 (Consecutive by FY)

Testing Agency: NBC Test and Evaluation Unit
MCLB Barstow, CA 92311-5014

Date of Test: _____

Unit Tested: _____

Location of Test: _____

Test Supervisor: _____

Item Tested: _____

Test Criteria: _____

Materiel Description: _____

Contract No. - _____

Lot Number - _____

Quantity - _____

Level of Pack: _____

Condition of Item: _____

Test(s) Conducted:	Passed	Failed
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

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REQUEST FOR T&EU SUPPORT

From: Requesting Unit
To: Commanding General (Code 830), MCLB, Albany, GA (Code 830)
Via: () Chain of Command

Subj: REQUEST FOR T&EU SUPPORT

Ref: (a) MCO 3960.5

1. Request that the following support be provided to this unit per the reference:

- a. Reporting Unit Code:
- b. Location of where support is to be provided:
- c. Type support required:

(1) Test and evaluation of equipment:

Item, quantity, and lot numbers.

and/or

(2) Technical assistance required:

Four hours of instruction on TI 10010-15/1 for 10
Marines.

d. Proposed date(s): 2 (Primary, alternate to be coordinated by POC).

2. Unit point of contact is _____, AUTOVON _____
_____/Commercial _____.

Signature

Copy to: CMC (Code L)
CG MCRDAC (SSC-NBC/PSI-G)

ENCLOSURE (6)